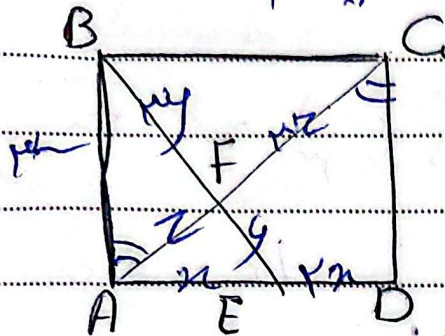


بنام خدا

۱۷، ۱۷۵

با درصد اخترا

مستقیم ذایار



$$ED = 2AE$$

$$AC = 3\sqrt{2}a$$

$$BE = \sqrt{10}a$$

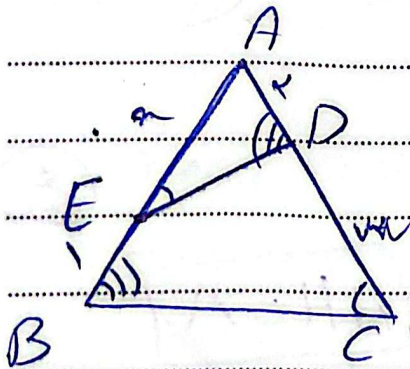
$$\triangle BCF \sim \triangle AEF$$

$$\sqrt{10}a = \epsilon\gamma$$

$$3\sqrt{2}a = \epsilon\zeta$$

$$\frac{\gamma}{\zeta} = \frac{\sqrt{10}}{3\sqrt{2}} = \frac{\sqrt{5}}{3}$$

درست بنا بر حالت در تمام مستقیم



$$\hat{B} = \hat{D} \sim \frac{a}{2+13} = \frac{2}{2+1} = \frac{ED}{BC}$$

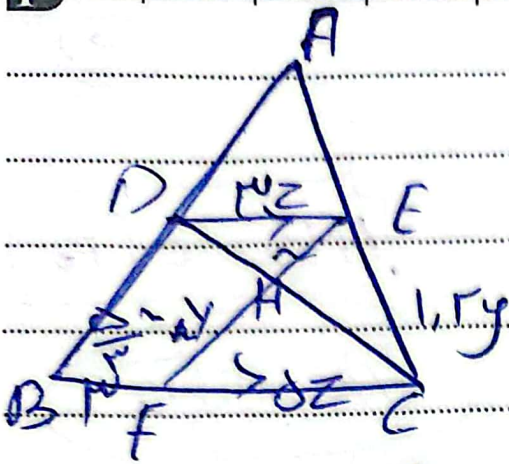
$$\hat{E} = \hat{C} \quad \hat{A} = \hat{A}$$

$$n(n+1) = 3$$

$$n = 2$$

$$n = -4$$

$$n = 2$$



$$wy = \Delta z \Rightarrow y = \frac{\Delta z}{w}$$

(5)

$$\frac{y}{w} = \frac{y}{w} \times \frac{\Delta z}{r} = \frac{\Delta z}{r}$$

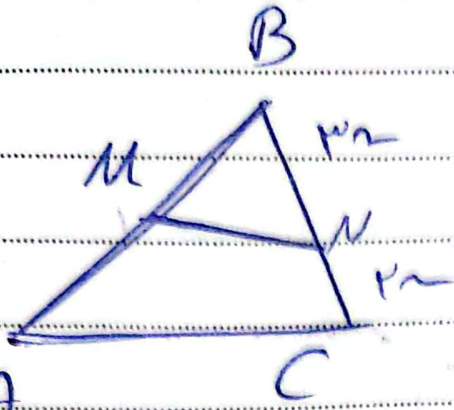
$$\triangle FHC \sim \triangle DHC \quad \frac{FC}{DE} = \frac{\Delta z}{w} \quad \begin{cases} FC = \Delta z \\ DE = wz \end{cases}$$

$$\triangle ADE \sim \triangle ABC \quad \frac{DE}{BC} = \frac{AE}{AC} = \frac{z}{r} = \frac{1}{r}$$

$$\frac{wz}{w + \Delta z} = \frac{1}{r} \rightarrow wz = r \rightarrow z = \frac{r}{\epsilon}$$

$$BC = r + \Delta z = r \rightarrow \Delta \times \frac{r}{\epsilon} = r + \frac{r}{\epsilon}$$

$$BC = \frac{rV}{\epsilon}$$

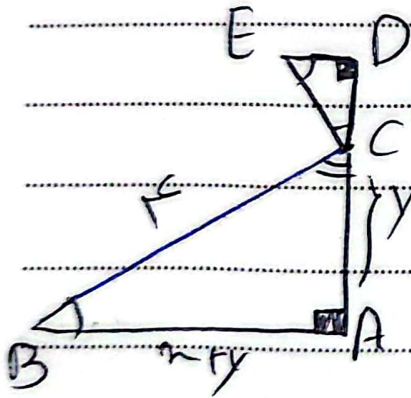


$$\frac{S_{ABC}}{S_{MBN}} = \frac{\frac{1}{2} \sin B \cdot BC \cdot AB}{\frac{1}{2} \sin B \cdot BN \cdot BM} = \frac{r^2}{1}$$

$$\frac{BM + AM}{BM} = \frac{1}{\epsilon} \Rightarrow 1 + \frac{AM}{BM} = \frac{1}{\epsilon}$$

$$\boxed{\frac{BM}{AM} = \frac{2}{\epsilon}}$$

$$\frac{BA}{AB}$$



$$E + C = 90^\circ \Rightarrow C_r = E$$

$$C + C_r = 90^\circ \Rightarrow A = D = 90^\circ$$

$$\triangle EDC \sim \triangle ABC \quad (ij)$$

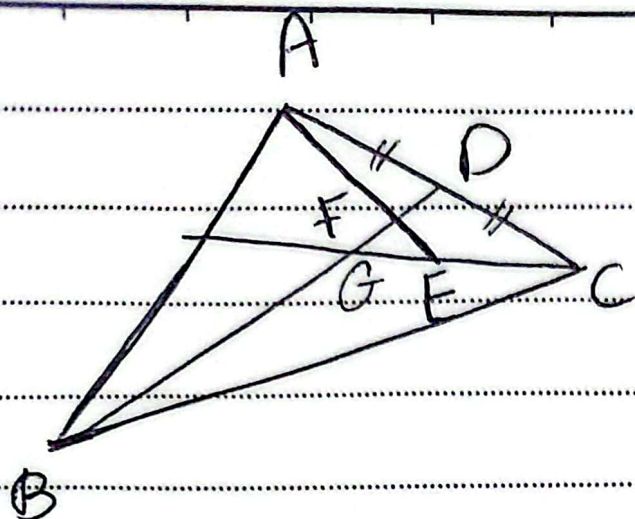
$$\Rightarrow \frac{x+y}{x} = \epsilon \Rightarrow 1 + \frac{y}{x} = \epsilon \Rightarrow y = rx$$

$$AB^2 + AC^2 = BC^2 \rightarrow 19x^2 + 9x^2 = 19 \rightarrow x = 1$$

$$x = 1$$

$$y = r, \epsilon \rightarrow AB = \sqrt{19} \sim AB^2 = (19, 1)^2$$

$$10, 1\epsilon$$



$$GE = EC$$

10

$$\frac{BD}{FD} =$$

G - كل نقطة من هنا

$$\left. \begin{array}{l} GE = EC \\ AGC \end{array} \right\} \begin{array}{l} GD, AE \rightarrow \text{مقاطع } F \\ \text{مركز } F \end{array}$$

9

$$FD = x \rightarrow GF = 2x \rightarrow GD = 3x$$

ABC $\rightarrow$ G
مركز

so

$$BG = 4x$$

$$BD = 9x$$

$$\frac{BD}{FD} = \frac{9x}{x} = 9$$